LIST OF CLAIMS

1. (currently amended). A method for inducing or enhancing chondrogenesis ~~in cells~~ comprising the step of ~~exposing~~ culturing chondrocytes ~~said cells~~ *in vitro* ~~to~~ with a matrix composition comprising type I collagen and an effective amount of BMP-4 sufficient to induce or enhance chondrogenesis.

2. (currently amended). A method for inducing or enhancing chondrogenesis ~~in cells~~ comprising the step of ~~exposing~~ culturing chondrocytes ~~said cells~~ *in vitro* with a matrix composition comprising type II collagen and an effective amount of BMP-4 sufficient to induce or enhance chondrogenesis.

3-9. (Cancelled)

10. (currently amended) A method according to claim ~~6~~ 1 or 2 wherein said chondrocytes ~~cells comprise~~ are from joint tissue.

11-19. (cancelled)

20. (currently amended). A method for inducing or enhancing chondrogenesis ~~in cells~~ comprising the step of ~~exposing~~ culturing chondrocytes ~~said cells~~ *in vitro* ~~to~~ with a matrix composition comprising type I collagen and an effective amount of BMP-4 and GDF-5 sufficient to induce or enhance chondrogenesis.

21. (currently amended). A method for inducing or enhancing chondrogenesis ~~in cells~~ comprising the step of ~~exposing~~ culturing chondrocytes ~~said cells~~ *in vitro* ~~to~~ with a matrix composition comprising type II collagen and an effective amount of BMP-4 and GDF-5 sufficient to induce or enhance chondrogenesis.

22 and 23. (Cancelled).

24. (new) A method according to claim 20 or 21 wherein said chondrocytes are from joint tissue.

25. (new). A method according to claim 1, 2, 20, or 21 further comprising the step of subsequently implanting said matrix containing said chondrocytes into a site *in vivo* of desired chondrogenesis.

26. (new) A method according to claim 1, 2, 20 or 21 wherein said matrix is formed by lyophilization of a dispersion of collagen fibers.